

COC # 160

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CHAIN OF CUSTODY REPORT

Work Order #: M107022

CLIENT: BRISTOL		INVOICE TO: BRISTOL		TURNAROUND REQUEST in Business Days* Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div>10 7 5 4 3 2 1 <1</div> <div>STD.</div> <div>5 4 3 2 1 <1</div> </div> Petroleum Hydrocarbon Analyses <div style="display: flex; justify-content: space-around;"> <div>5 4 3 2 1 <1</div> <div>STD.</div> </div> Please Specify <div style="border: 1px solid black; padding: 2px; display: inline-block;">OTHER</div>																											
REPORT TO: Anne Kranawetter		P.O. NUMBER: 71090																													
ADDRESS: Amchitka Is. AK																															
PHONE: 770-0974 FAX: 770-0975		PROJECT NAME: AMCHITKA		REQUESTED ANALYSES <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">PCBs</td> <td style="width: 10%;">TSS/BOD</td> <td style="width: 10%;">Metals</td> <td style="width: 10%;">Trace Org Compounds</td> <td style="width: 10%;">HAPs</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				PCBs	TSS/BOD	Metals	Trace Org Compounds	HAPs								✓	✓	✓	✓	✓							
PCBs	TSS/BOD	Metals	Trace Org Compounds					HAPs																							
✓	✓	✓	✓	✓																											
PROJECT NUMBER: 21090		SAMPLED BY: DSV																													
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME											MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID																
1. OIAMTE08SW	7/10/01 1025											W	7																		
2.																															
3.																															
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15.																															
RELINQUISHED BY: Doug Vaughn		DATE: 7/10/01		RECEIVED BY: Stephen Wilson		DATE: 7/10/01																									
PRINT NAME: Doug Vaughn		FIRM: Bristol		PRINT NAME: Stephen Wilson		FIRM: NCA																									
RELINQUISHED BY:		DATE:		RECEIVED BY:		DATE:																									
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:																									
ADDITIONAL RF'S: Sewage Lagoon Water Discharge												TEM																			
COC REV 3/99												PAGE	OF																		



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7 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/10/01 11:13. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M107022



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/17/01 11:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMTE08SW	M107022-01	Water	07/10/01 10:25	07/10/01 11:13

COC #160

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/17/01 11:18

Polychlorinated Biphenyls per EPA Method 8082
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE08SW (M107022-01) Water						Sampled: 07/10/01 Received: 07/10/01			
Aroclor 1016	ND	0.200	ug/l	1	EPA 8082	07/10/01	07/10/01	0107040	
Aroclor 1221	ND	0.400	"	"	"	"	"	"	
Aroclor 1232	ND	0.200	"	"	"	"	"	"	
Aroclor 1242	ND	0.200	"	"	"	"	"	"	
Aroclor 1248	ND	0.200	"	"	"	"	"	"	
Aroclor 1254	ND	0.200	"	"	"	"	"	"	
Aroclor 1260	ND	0.200	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	75.0 %	44-119							
Surr: Decachlorobiphenyl	82.5 %	54-128							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/17/01 11:18

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMTE08SW (M107022-01) Water

Sampled: 07/10/01 Received: 07/10/01

Arsenic	ND	0.00500	mg/l	1	EPA 6020	07/11/01	07/12/01	0107046	
Cadmium	ND	0.00200	"	"	"	"	"	"	
Chromium	ND	0.00500	"	"	"	"	"	"	
Lead	ND	0.00500	"	"	"	"	"	"	
Selenium	ND	0.00500	"	"	"	"	"	"	
Silver	ND	0.00200	"	"	"	"	"	"	
Mercury	ND	0.0000100	"	"	EPA 1631	07/12/01	07/13/01	0107050	

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/17/01 11:18

Conventional Chemistry Parameters per APHA/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMTE08SW (M107022-01) Water

Sampled: 07/10/01 Received: 07/10/01

Biochemical Oxygen Demand	6.11	4.00	mg/l	1	EPA 405.1	07/10/01	07/17/01	0107042	
Dissolved Oxygen	8.89	1.00	"	"	EPA 360.1	07/10/01	07/10/01	0107039	
pH	6.60	0.100	pH Units	"	EPA 150.1	"	"	"	
Total Suspended Solids	ND	10.0	mg/l	"	EPA 160.2	07/11/01	07/12/01	0107048	

North Creek Analytical - Mobile Lab

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/17/01 11:18

Microbiological Parameters per APHA Standard Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE08SW (M107022-01) Water					Sampled: 07/10/01 Received: 07/10/01				
E. Coli	ND	2.00MPN/100 ml	1		SM 9221	07/10/01	07/12/01	0107041	
Total Coliforms	2420	2.00	"	"	"	"	"	"	B-14

North Creek Analytical - Mobile Lab

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/17/01 11:18

Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107040 - 3520B Liq-Liq

Blank (0107040-BLK1)

Prepared & Analyzed: 07/10/01

Aroclor 1016	ND	0.200	ug/l							
Aroclor 1221	ND	0.400	"							
Aroclor 1232	ND	0.200	"							
Aroclor 1242	ND	0.200	"							
Aroclor 1248	ND	0.200	"							
Aroclor 1254	ND	0.200	"							
Aroclor 1260	ND	0.200	"							
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.00489		"	0.200		2.44	44-119			A-01
Surr: Decachlorobiphenyl	0.180		"	0.200		90.0	54-128			

LCS (0107040-BS1)

Prepared & Analyzed: 07/10/01

Aroclor 1254	4.49	2.00	ug/l	5.00		89.8	47-155			
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.0872		"	0.200		43.6	44-119			A-01
Surr: Decachlorobiphenyl	0.422		"	0.200		NR	54-128			S-02

LCS Dup (0107040-BSD1)

Prepared & Analyzed: 07/10/01

Aroclor 1254	4.31	2.00	ug/l	5.00		86.2	47-155	4.09	50	
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.135		"	0.200		67.5	44-119			
Surr: Decachlorobiphenyl	0.162		"	0.200		81.0	54-128			

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/17/01 11:18

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107046 - EPA 200/3005

Blank (0107046-BLK1)

Prepared: 07/11/01 Analyzed: 07/12/01

Arsenic	ND	0.00500	mg/l
Cadmium	ND	0.00200	"
Chromium	ND	0.00500	"
Lead	ND	0.00500	"
Selenium	ND	0.00500	"
Silver	ND	0.00200	"

LCS (0107046-BS1)

Prepared: 07/11/01 Analyzed: 07/12/01

Arsenic	0.104	0.00500	mg/l	0.100	104	80-120
Cadmium	0.107	0.00200	"	0.100	107	80-120
Chromium	0.101	0.00500	"	0.100	101	80-120
Lead	0.101	0.00500	"	0.100	101	80-120
Selenium	0.107	0.00500	"	0.100	107	75-115
Silver	0.0992	0.00200	"	0.100	99.2	80-120

Duplicate (0107046-DUP1)

Source: M107022-01

Prepared: 07/11/01 Analyzed: 07/12/01

Arsenic	ND	0.00500	mg/l	ND	30.6	20	Q-06
Cadmium	ND	0.00200	"	ND	92.3	20	Q-06
Chromium	ND	0.00500	"	ND	79.7	20	Q-06
Lead	ND	0.00500	"	ND	55.7	20	Q-06
Selenium	ND	0.00500	"	ND		20	
Silver	ND	0.00200	"	ND	54.5	20	Q-06

Matrix Spike (0107046-MS1)

Source: M107022-01

Prepared: 07/11/01 Analyzed: 07/12/01

Arsenic	0.119	0.00500	mg/l	0.100	ND	117	75-125
Cadmium	0.112	0.00200	"	0.100	ND	112	75-125
Chromium	0.107	0.00500	"	0.100	ND	107	75-125
Lead	0.103	0.00500	"	0.100	ND	102	75-125
Selenium	0.117	0.00500	"	0.100	ND	117	75-125
Silver	0.0873	0.00200	"	0.100	ND	87.2	75-125

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/17/01 11:18

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107050 - EPA 1631

Blank (0107050-BLK1)

Prepared: 07/12/01 Analyzed: 07/13/01

Mercury	ND	0.0000100	mg/l
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LCS (0107050-BS1)

Prepared: 07/12/01 Analyzed: 07/13/01

Mercury	0.000124	0.0000100	mg/l	0.000125	99.2	85-115
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Duplicate (0107050-DUP1)

Source: M107022-01

Prepared: 07/12/01 Analyzed: 07/13/01

Mercury	ND	0.0000100	mg/l	ND	20
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Matrix Spike (0107050-MS1)

Source: M107022-01

Prepared: 07/12/01 Analyzed: 07/13/01

Mercury	0.000113	0.0000100	mg/l	0.000125	ND	90.4	75-125
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Bristol Environmental & Engineering 2000 W International Airport C#1 Anchorage, AK 99502-1116	Project: Amchitka Project Number: 21090 Project Manager: Anne Kranawetter	Reported: 07/17/01 11:18
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Conventional Chemistry Parameters per APHA/EPA Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107039 - Wet Chem

Duplicate (0107039-DUP1)	Source: M107022-01		Prepared & Analyzed: 07/10/01						
pH	6.70	0.100	pH Units		6.60		1.50	200	

Batch 0107042 - Wet Chem

Blank (0107042-BLK1)	Prepared: 07/10/01 Analyzed: 07/17/01								
Biochemical Oxygen Demand	ND	4.00	mg/l						

LCS (0107042-BS1)	Prepared: 07/10/01 Analyzed: 07/17/01								
Biochemical Oxygen Demand	183	4.00	mg/l	198	92.4	75-125			

Duplicate (0107042-DUP1)	Source: M107022-01		Prepared: 07/10/01 Analyzed: 07/17/01						
Biochemical Oxygen Demand	6.61	4.00	mg/l		6.11		7.86	40	

Batch 0107048 - Wet Chem

Blank (0107048-BLK1)	Prepared: 07/11/01 Analyzed: 07/12/01								
Total Suspended Solids	ND	10.0	mg/l						

LCS (0107048-BS1)	Prepared: 07/11/01 Analyzed: 07/12/01								
Total Suspended Solids	119	10.0	mg/l	120	99.2	80-120			

Duplicate (0107048-DUP1)	Source: M107022-01		Prepared: 07/11/01 Analyzed: 07/12/01						
Total Suspended Solids	ND	10.0	mg/l		ND			20	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/17/01 11:18

Microbiological Parameters per APHA Standard Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107041 - Micro Extractions

Blank (0107041-BLK1)

Prepared: 07/10/01 Analyzed: 07/12/01

E. Coli	ND	2.00	MPN/100 ml
Total Coliforms	ND	2.00	"

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/17/01 11:18

Notes and Definitions

- A-01 Sample was blown to dry during extraction causing a low value for TCX.
- B-14 Result is greater than (>) stated value.
- Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
- wet Sample results reported on a wet weight basis (as received)
- RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M107022 FINAL 07 17 01 1118.mdb
			Default Report (not modified)
0107040-BLK1	8082 PCB	2,4,5,6-Tetrachloro-m-xylene	Exceeds lower control limit
0107040-BLK1	8082 PCB	2,4,5,6-Tetrachloro-m-xylene	A-01
0107040-BS1	8082 PCB	Decachlorobiphenyl	Exceeds upper control limit
0107040-BS1	8082 PCB	2,4,5,6-Tetrachloro-m-xylene	Exceeds lower control limit
0107040-BS1	8082 PCB	Decachlorobiphenyl	S-02
0107040-BS1	8082 PCB	2,4,5,6-Tetrachloro-m-xylene	A-01
0107046-DUP1	Ag Total ICPMS 6020	Silver	Q-06
0107046-DUP1	Ag Total ICPMS 6020	Silver	Exceeds RPD limit
0107046-DUP1	As Total ICPMS 6020	Arsenic	Q-06
0107046-DUP1	As Total ICPMS 6020	Arsenic	Exceeds RPD limit
0107046-DUP1	Cd Total ICPMS 6020	Cadmium	Exceeds RPD limit
0107046-DUP1	Cd Total ICPMS 6020	Cadmium	Q-06
0107046-DUP1	Cr Total ICPMS 6020	Chromium	Q-06
0107046-DUP1	Cr Total ICPMS 6020	Chromium	Exceeds RPD limit
0107046-DUP1	Pb Total ICPMS 6020	Lead	Exceeds RPD limit
0107046-DUP1	Pb Total ICPMS 6020	Lead	Q-06
M107022-01	TC MPN-SM9221	Total Coliforms	B-14